



PATENT
Docket No.: 2356/10

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Takahide KISHIMOTO, et al.

SERIAL NO. : 09/998,130

FILED : December 3, 2001

FOR : DETERMINATION METHOD OF BIOLOGICAL
COMPONENT AND REAGENT KIT USED THEREFOR

GROUP ART UNIT : Unassigned

EXAMINER : Unassigned

ASSISTANT COMMISSIONER FOR PATENTS
Washington, DC 20231

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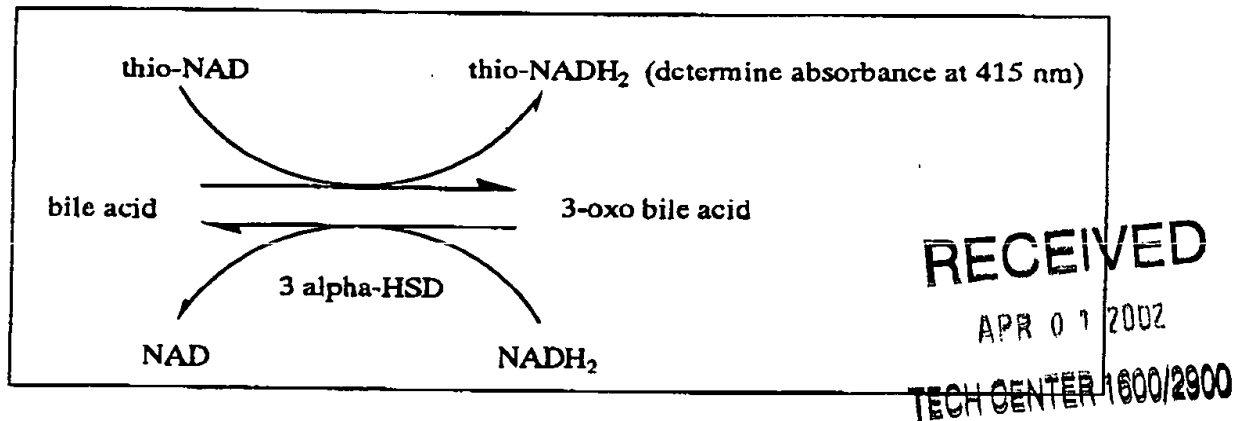
INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(b)(3) & § 1.98

Sir:

This information Disclosure Statement is being filed pursuant to 37 CFR § 1.97(b)(3), (i.e., before the mailing of a First Office Action on the merits). The attention of the Patent and Trademark Office is hereby directed to the references listed on the attached form PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

There is no English translation of the non-patent Japanese reference (*Kensa to Gijutsu*, 27(8) : 973-980, July, 1999) immediately available to us. Therefore, in accordance with 37 C.F.R. § 1.98(a)(3)(i), the following is a concise explanation of the relevance as it is presently understood by the individual designated in § 1.56(c) most knowledgeable about the content of the

information. This reference discloses the principle of a highly sensitive determination method of a biological substance by an enzymatic cycling assay, including determination of total bile acid in human serum using the 3 α -hydroxysteroid dehydrogenase (3 α -HSD)-thio-NAD-NADH₂ cycling system as shown below, but does not teach or suggest a glutathione-dependent formaldehyde dehydrogenase capable of catalyzing a cycling reaction.



Because this Information Disclosure Statement is being filed before mailing of a first Office Action on the merits, in accordance with 37 C.F.R. § 1.97(b)(3), it is believed that no fee is due. The Commissioner is, however, hereby authorized to charge any fee believed necessary and to credit any overpayment to Kenyon & Kenyon Deposit Account No. 11-0600.

Respectfully submitted,

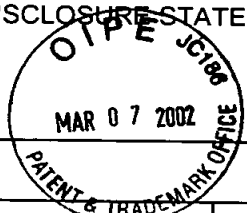
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Dated: March 7, 2002

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Attorney Docket No. 2356/10	Serial No. 09/998,130
	APPLICANT Takahide KISHIMOTO, et al.	
	Filing Date December 3, 2001	Group Not Assigned



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
P2001-17198A	1/23/2001	Japan			yes

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	
	M.S. Quesenberry, et al., "A Rapid Formaldehyde Assay Using Purpald Reagent: Application under Periodation Conditions", <i>Anal. Biochem.</i> , 234(1), 50-55 (1996).
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	Yutaka Teranishi, et al., "Catalase Activities of Hydrocarbon-utilizing <i>Candida</i> Yeasts" <i>Agric. Biol. Chem.</i> 38(6), 1213-1220 (1974).
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	Timothy A. Garrow, "Purification, Kinetic Properties, and cDNA Cloning of Mammalian Betaine-Homocysteine Methyltransferase" <i>J. Biol. Chem.</i> , 271(37), 22831-22838 (1996).
	Ingo Neben, et al., "Studies on an Enzyme, S-Formylglutathione Hydrolase, of the Dissimilatory Pathway of Methanol in <i>Candida Boidinii</i> ", <i>Biochim. Biophys. Acta</i> , 614, 81-91(1980).
	Horst SCHÜTTE, et al., "Purification and Properties of Formaldehyde Dehydrogenase and Formate Dehydrogenase from <i>Candida Boidinii</i> ", <i>Eur. J. Biochem.</i> 62(1), 151-150 (1976).

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.